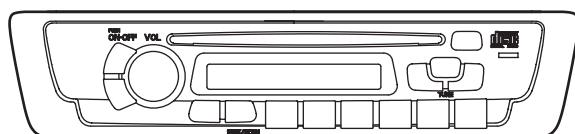
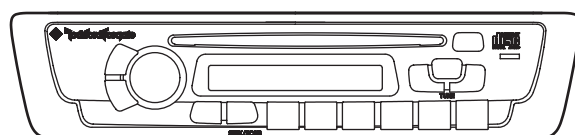


# Service Manual



PN-2445M-A, M-B, M-C, M-D, M-E, M-F



PN-2445M-G

## NISSAN Automobile Genuine FM/AM Radio CD Stereo

### Model **PN-2445M-A**

(Genuine No.28185 4Z500/ID No.CY290)

### Model **PN-2445M-B**

(Genuine No.28185 4Z510/ID No.CY300)

### Model **PN-2445M-C**

(Genuine No.28185 4Z520/ID No.CY310)

### Model **PN-2445M-D**

(Genuine No.28185 4Z400/ID No.CY260)

### Model **PN-2445M-E**

(Genuine No.28185 4Z410/ID No.CY270)

### Model **PN-2445M-F**

(Genuine No.28185 4Z420/ID No.CY280)

### Model **PN-2445M-G**

(Genuine No.28185 4Z700/ID No.CY320)

## SPECIFICATIONS

### Radio section

Tuning system: PLL frequency synthesizer system

Receive range: AM 530kHz to 1,710kHz

FM 87.75MHz to 107.9MHz

Intermediate frequency:

AM  $450 \pm 3$ kHz

FM  $10.7 \pm 0.3$ MHz

Quieting sensitivity: AM Less than 32dB  $\mu$  (at 20dB S/N)

FM Less than 10dB  $\mu$  (at 30dB S/N)

Separation: FM More than  $22 + 5/-7$ dB(1kHz)

S/N ratio: AM More than 45dB

FM More than 50dB

Auto tuning stop sensitivity:

AM  $32 \pm 6$ dB  $\mu$  (600/1000/1400kHz)

FM  $25 \pm 6$ dB  $\mu$

(87.9/98.1/107.9MHz)

### CD section

Disc: 12cm Disc

Separation: More than 50dB(Filter:20kHz LPF)

S/N ratio: More than 74dB

Distortion: Less than 0.4%  
(Filter:20kHz LPF)

### General

Load impedance: 4  $\Omega$ /CH

Power output: 30W  $\times$  4

Power supply voltage: DC13.2V(10.8V to 16.0V)  
Negative ground

Back-up consumption: Less than 3mA

Dimensions(mm): 180(W)  $\times$  52(H)  $\times$  159(D)

Weight: 1.4kg

Specifications and design are subject to change without notice for further improvement.

## COMPONENTS

PN-2445M-A/M-B/M-C/M-D/M-E/M-F/M-G

Main unit - - - - 1

## NOTE

We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.

## DIFFERENCE FEATURE LIST

	Esccheon	Equalizer
PN-2445M-A	Black	
PN-2445M-B	Brown	
PN-2445M-C	Gray	
PN-2445M-D	Black	×
PN-2445M-E	Brown	×
PN-2445M-F	Gray	×
PN-2445M-G	Black	

## To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

### 1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

### 2. Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.

If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

### 3. Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary problems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

### 4. Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If

extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

### 5. Cautions regarding chips.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.

### 6. Cautions in handling flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270 . Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.

### 7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

### 8. Cautions in checking that the optical pickup lights up.

The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.

### 9. Cautions in handling the optical pickup

The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

#### 9-1. Laser diode

The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

#### 9-2. Actuator

The actuator has a powerful magnetic circuit. If a magnetic material is put close to it. Its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

#### 9-3. Cleaning the lens

Dust on the optical lens affects performance. To clean the lens, apply a small amount of isopropyl alcohol to lens paper and wipe the lens gently.

## ADJUSTMENT

Item	Procedure	Measuring instrument
FM noise convergence	1. Input the 98.1MHz/55dB $\mu$ (1kHz 30% MOD) signal. 2. Adjust the outputs to $-18 \pm 3\text{dB}$ by VR102 when the SG output is set to $-20\text{dB}$ $\mu$ .	SSG AC volt meter
Clock accuracy	1. Turn off and on the ACC switch twice, while holding the buttons of power switch and CD eject to make the unit the test mode. 2. Set a universal timer to TP101(T-BASE), adjust TC201 so that a reading of the meter is $0 \pm 0.1$ sec./day.	Chronometer

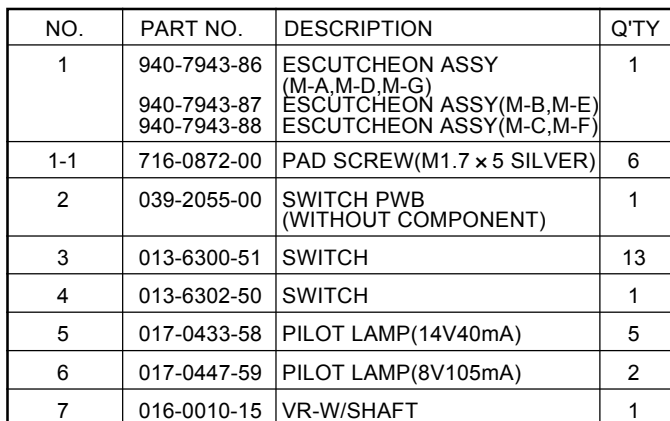
## EXPLANATION OF IC

052-1163-20 uPD178076GF-540-3BA CD & Radio System control

### 1.Terminal Description

pin 1: EJECT SW	: IN: Eject switch ON signal input.	pin 48: NU	: - : Not in use.
pin 2: NU	: - : Not in use.	pin 49: IC	: IN: Connected to the ground.
pin 3: NU	: - : Not in use.	pin 50: RESET	: IN: Reset signal input.
pin 4: VOL DATA	: O: The serial data output to the volume IC.	pin 51: NU	: - : Not in use.
pin 5: VOL CLK	: O: The clock pulse output to the volume IC.	pin 52: NU	: - : Not in use.
pin 6: VOL CE	: O: The chip enable signal output to the volume IC.	pin 53: ST/TWEET	: I/O: Outputs "L" at AM 900kHz receiving. Inputs "L" at FM stereo receiving.
pin 7: NU	: - : Not in use.	pin 54: CLK INT	: IN: Without a clock = "H".
pin 8: LCD DI	: IN: The serial data input from the LCD driver.	pin 55: AUX ON	: IN: AUX ON signal input.
pin 9: LCD DO	: O: The serial data output to the LCD driver.	pin 56: TEST	: - : For the Test.
pin 10: LCD CLK	: O: The clock pulse output to the LCD driver.	pin 57: LCD ON	: O: LCD back light ON signal output.
pin 11: LCD CE	: O: The chip enable signal output to the LCD driver.	pin 58: NU	: - : Not in use.
pin 12: NU	: - : Not in use.	pin 59: BEEP	: O: Beep out.
pin 13: POWER SW	: IN: Power switch ON signal input.	pin 60: NU	: - : Not in use.
pin 14: VOL 1	: IN: Volume control pulse input from the rotary encoder.	pin 61: NU	: - : Not in use.
pin 15: VOL 2	: IN: Volume control pulse input from the rotary encoder.	pin 62: CD RESET	: O: The reset pulse output to the CD IC.
pin 16: ILL	: IN: Illumination ON signal input.	pin 63: NU	: - : Not in use.
pin 17: NU	: - : Not in use.	pin 64: AF MUTE	: O: Audio frequency signal muting.
pin 18: NU	: - : Not in use.	pin 65: NU	: - : Not in use.
pin 19: NU	: - : Not in use.	pin 66: FM ON	: O: FM ON signal output.
pin 20: NU	: - : Not in use.	pin 67: AM ON	: O: AM ON signal output.
pin 21: NU	: - : Not in use.	pin 68: CD ON	: O: CD ON signal output.
pin 22: NU	: - : Not in use.	pin 69: NU	: - : Not in use.
pin 23: NU	: - : Not in use.	pin 70: NU	: - : Not in use.
pin 24: NU	: - : Not in use.	pin 71: NU	: - : Not in use.
pin 25: NU	: - : Not in use.	pin 72: RF MUTE	: O: Radio frequency signal muting.
pin 26: NU	: - : Not in use.	pin 73: DX/LO	: O: DX/Local select signal output.
pin 27: A VDD	: - : Positive supply voltage for the Analog section.	pin 74: SYS ON	: O: System ON signal output.
pin 28: NU	: - : Not in use.	pin 75: AMP ON	: O: Audio power amplifier ON signal output.
pin 29: NU	: - : Not in use.	pin 76: COMBI ON	: O: Combi ON signal output.
pin 30: NU	: - : Not in use.	pin 77: NU	: - : Not in use.
pin 31: NU	: - : Not in use.	pin 78: ACC IN	: IN: ACC detection signal input.
pin 32: A VSS	: - : Analog ground.	pin 79: RADIO ON	: O: Radio ON signal output.
pin 33: REG CPU	: IN: The capacitor connection terminal to suppress the ripple.	pin 80: NU	: - : Not in use.
pin 34: VDD	: - : Positive supply voltage.	pin 81: SBSY	: IN: Sub code sync input.
pin 35: REG OSC	: IN: The capacitor connection terminal to suppress the ripple.	pin 82: GND	: - : Ground.
pin 36: X 2	: - : Crystal connection.	pin 83: CD CONNECT	: IN: CD connection check signal input.
pin 37: X 1	: - : Crystal connection.	pin 84: BUS 0	: I/O: CD IC Data input / output.
pin 38: GND	: - : Ground.	pin 85: BUS 1	: I/O: CD IC Data input / output.
pin 39: NU	: - : Not in use.	pin 86: BUS 2	: I/O: CD IC Data input / output.
pin 40: GND	: - : Ground.	pin 87: BUS 3	: I/O: CD IC Data input / output.
pin 41: AM IF	: IN: Input terminal of the internal universal counter for AM IF.	pin 88: BUS CK	: O: Clock pulse output to the CD IC.
pin 42: FM IF	: IN: Input terminal of the internal universal counter for FM IF.	pin 89: CCE	: O: The chip enable signal output.
pin 43: VDD PLL	: - : Positive supply voltage for the PLL.	pin 90: GS1 TEST	: O: Test data output.
pin 44: FM OSC	: IN: Input terminal of the internal counter for FM OSC( Local Oscillation ).	pin 91: S STOP	: IN: In side limit signal input.
pin 45: AM OSC	: IN: Input terminal of the internal counter for AM OSC( Local Oscillation ).	pin 92: CHU SW	: IN: CD disc chucking signal input.
pin 46: GND PLL	: - : Ground for the PLL.	pin 93: TR B	: IN: Photo sensor signal input from the CD mechanism.
pin 47: Voltage Tune	: O: PLL error output.	pin 94: TR A	: IN: Photo sensor signal input from the CD mechanism.
		pin 95: LD CONT	: IN: Loading control signal input.
		pin 96: LD MUTE	: O: Muting signal output to the CD mechanism.
		pin 97: NU	: - : Not in use.
		pin 98: BAND SEL	: IN: Band selection input.
		pin 99: VDD	: - : Positive supply voltage.
		pin100: GND	: - : Ground.

## Main section



NO.	PART NO.	DESCRIPTION	Q'TY
8	335-6541-80	ILLUMI HOLDER	1
9	335-5777-00	LCD ILLUMI	1
10	335-5779-00	COLOR FILTER	1
11	379-1217-30	INDICATOR	1
12	331-2448-01	LCD COVER	1
13	074-1151-14	OUTLET SOCKET(14P)	1
14	073-0774-00	TERMINAL	2
15	380-5515-80	KNOB	1

NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
16	373-0957-04 373-0957-05 373-0957-06 373-0957-07 373-0957-08 373-0957-09 373-0957-22	DIAL COVER(M-A) DIAL COVER(M-B) DIAL COVER(M-C) DIAL COVER(M-D) DIAL COVER(M-E) DIAL COVER(M-F) DIAL COVER(M-G)	1	31	716-0878-00	IT SCREW(M2.6 × 5)	3
17	716-0872-00	PAD SCREW(M1.7 × 5 SILVER)	4	32	714-2606-81	MACHINE SCREW(M2.6 × 6)	15
18	347-2510-00	CUSHION TAPE	4	33	714-2612-81	MACHINE SCREW(M2.6 × 12)	2
19	039-2054-00	MAIN PWB (WITHOUT COMPONENT)	1	34	073-0774-00	TERMINAL	1
20	076-0540-14	PLUG(14P)	1	35	305-0316-00	SIDE COVER(L)	1
21	074-1191-26	OUTLET SOCKET(26P)	1	36	305-0317-00	SIDE COVER(R)	1
22	103-2012-00	TRANSISTOR(2SD2012)	1	37	331-3268-00	ES-PLATE	1
23	051-2040-00	IC(TA8276H)	1	38	929-0220-81	CD MECHANISM	1
24	074-0850-08	OUTLET SOCKET(DIN8P)	1	39	331-3254-10	MECHANISM BRACKET	1
25	074-1068-11	OUTLET SOCKET	1	40	816-2549-00	FLAT WIRE	1
26	880-1917B	AM/FM TUNER	1	41	311-1833-10	LOWER CASE	1
27	073-0762-90	TERMINAL	2	42	310-1739-10	UPPER CASE	1
28	307-0683-05	REAR PLATE	1	43	286-9269-13 286-9269-14 286-9269-15 286-9269-16 286-9269-17 286-9269-18 286-9269-19	SETPLATE(M-A) SETPLATE(M-B) SETPLATE(M-C) SETPLATE(M-D) SETPLATE(M-E) SETPLATE(M-F) SETPLATE(M-G)	1
29	313-1825-15	HEAT SINK	1	44	714-2603-81	MACHINE SCREW(M2.6 × 3)	2
30	092-0702-00	ANT RECEPT	1	45	702-3008-81	TAP SCREW( 3 × 8)	2

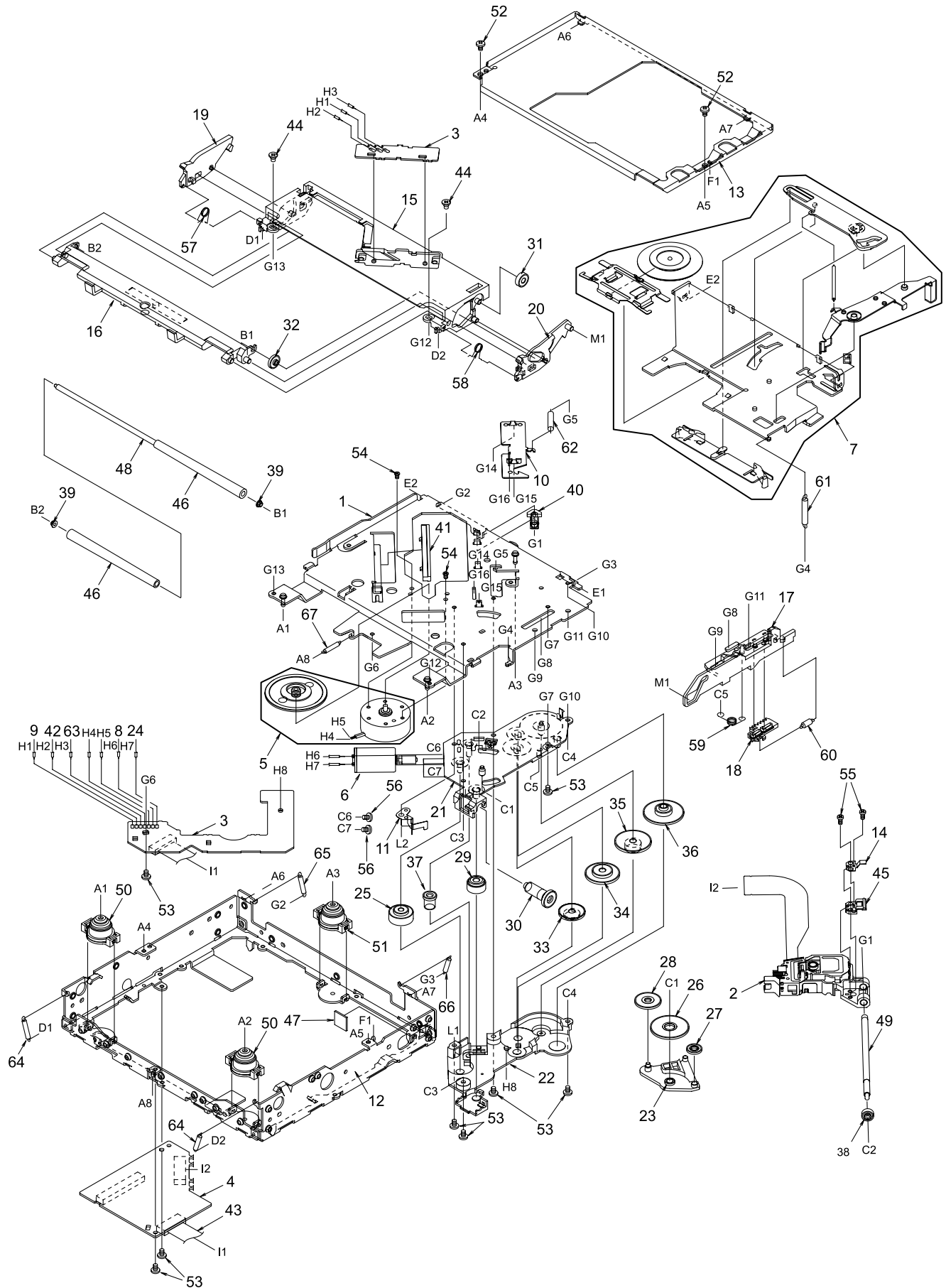
#### CD mechanism section : 929-0220-81

The exploded view of CD mechanism is on page 6.

NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	966-0595-24	DRIVE PLATE ASSY	1	30	621-0613-20	ROLLER GEAR B	1
2	969-0060-30	PICK UP UNIT	1	31	621-0614-20	ROLLER GEAR C	1
3	039-1944-21	LED PWB (WITHOUT COMPONENT)	1	32	621-0615-21	ROLLER GEAR D	1
4	039-1945-20	CD PWB (WITHOUT COMPONENT)	1	33	621-0616-20	POWER GEAR A	1
5	SMA-182-100	MOTOR ASSY(SPINDLE)	1	34	621-0617-20	POWER GEAR B	1
6	SMA-183-100	MOTOR ASSY(SLED)	1	35	621-0618-20	POWER GEAR C	1
7	HBS-516-100	CLAMPER SUB ASSY	1	36	621-0619-20	POWER GEAR D	1
8	803-4906-60	VINYL COAT WIRE(ORG)	1	37	621-0620-20	THREAD GEAR A	1
9	816-2591-00	LEAD WIRE(YEL)	1	38	621-0621-20	THREAD GEAR B	1
10	620-1025-21	ID-LOCK PLATE	1	39	621-0622-21	ROLLER SLEEVE	2
11	620-1026-21	SPRING PLATE	1	40	621-0623-21	LS-HOLDER	1
12	620-1027-24	LOWER CHASSIS	1	41	621-0624-21	GUIDE RAIL	1
13	620-1028-21	UPPER CHASSIS	1	42	816-2593-00	LEAD WIRE(PUR)	1
14	620-1029-21	SH-SPRING	1	43	816-2542-01	FLAT WIRE(10P)	1
15	621-0598-25	UPPER GUIDE	1	44	716-3473-00	SCREW	2
16	621-0599-25	ROLLER GUIDE	1	45	621-0628-21	SH-BASE	1
17	621-0600-25	SHIFT LEVER	1	46	621-0629-20	LOADING ROLLER	2
18	621-0601-21	RACK	1	47	345-8704-20	CUSHION RUBBER	1
19	621-0602-22	LOCK ARM L	1	48	622-1571-21	ROLLER SHAFT	1
20	621-0603-23	LOCK ARM R	1	49	624-0018-01	LEAD SCREW	1
21	621-0604-21	GEAR BASE	1	50	629-0081-20	DAMPER F	2
22	621-0605-21	GEAR COVER	1	51	629-0082-20	DAMPER R	1
23	621-0606-21	IDLE CASE	1	52	714-2003-81	MACHINE SCREW	2
24	816-2590-00	VINYL COAT WIRE(GRN)	1	53	716-1507-00	SCREW	8
25	621-0608-21	SECOND GEAR	1	54	716-1733-00	SCREW	2
26	621-0609-20	BASE GEAR	1	55	716-3469-00	SPECIAL SCREW	2
27	621-0610-20	IDLE GEAR A	1	56	716-3446-00	SCREW	2
28	621-0611-20	IDLE GEAR B	1	57	750-3465-21	ROLLER SPRING L	1
29	621-0612-21	ROLLER GEAR A	1	58	750-3466-20	ROLLER SPRING R	1
				59	750-3467-21	SHIFT SPRING	1

NO.	PART NO.	DESCRIPTION	Q'TY
60	750-3468-20	RACK SPRING	1
61	750-3469-20	CLAMPER SPRING	1
62	750-3470-20	ID-LOCK SPRING	1
63	816-2592-00	LEAD WIRE(BLU)	1

NO.	PART NO.	DESCRIPTION	Q'TY
64	750-3472-21	DR-SPRING F	2
65	750-3473-20	DR-SPRING RA	1
66	750-3474-20	DR-SPRING RB	1
67	750-3475-21	DR-SPRING C	1



# ELECTRICAL PARTS LIST

Main PWB section(B1)

Note) Several different parts of the same reference number are alternative parts.

One of those parts is used in the set.

The parts on marks are used PN-2445M-A, M-B, M-C.

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
ANT101	092-0702-00	ANT RECEPT	C502	168-5612-55	560pF	C570	178-1242-78	0.12 $\mu$ F
BL101	880-1917B	AM/FM TUNER	C504	168-5612-55	560pF			(M-D,M-E,M-F,M-G)
C104	119-0000-05	1/16W 0 JW	C505	166-2201-50	22pF CH	C571	178-2242-78	0.22 $\mu$ F
C114	166-1007-50	10pF CH	C506	166-2201-50	22pF CH			(M-A,M-B,M-C)
C116	168-1042-78	16V 0.1 $\mu$ F	C508	166-2201-50	22pF CH	C571	178-1242-78	0.12 $\mu$ F
C117	043-0277-51	0.022 $\mu$ F	C509	166-2201-50	22pF CH			(M-D,M-E,M-F,M-G)
C118	168-1022-55	1000pF	C512	166-2201-50	22pF CH	C573	182-1053-69	50V1 $\mu$ F
C119	182-1073-29	10V100 $\mu$ F	C513	166-2201-50	22pF CH	C574	183-2253-69	50V2.2 $\mu$ F
C120	042-0458-93	50V2.2 $\mu$ F	C515	166-2201-50	22pF CH	C577	178-1052-78	1 $\mu$ F(M-A,M-B,M-C)
C122	182-1073-29	10V100 $\mu$ F	C516	166-2201-50	22pF CH	C577	117-0000-05	1/10W 0 JW
C123	182-1073-29	10V100 $\mu$ F	C529	178-2242-78	0.22 $\mu$ F			(M-D,M-E,M-F,M-G)
C125	182-4763-39	16V47 $\mu$ F	C530	178-5632-78	0.056 $\mu$ F	C578	178-1052-78	1 $\mu$ F(M-A,M-B,M-C)
C126	183-1056-68	50V1 $\mu$ F NP	C531	178-4742-78	0.47 $\mu$ F	C578	117-0000-05	1/10W 0 JW
C127	168-1832-55	0.018 $\mu$ F	C532	178-4742-78	0.47 $\mu$ F			(M-D,M-E,M-F,M-G)
C128	168-4732-78	0.047 $\mu$ F	C533	178-5632-78	0.056 $\mu$ F	C579	178-1052-78	1 $\mu$ F(M-A,M-B,M-C)
C129	168-4732-78	0.047 $\mu$ F	C534	178-1842-78	0.18 $\mu$ F	C579	117-0000-05	1/10W 0 JW
C130	166-1201-50	12pF CH	C535	178-3932-78	0.039 $\mu$ F			(M-D,M-E,M-F,M-G)
C131	166-1201-50	12pF CH	C536	178-3932-78	0.039 $\mu$ F	C580	178-1052-78	1 $\mu$ F(M-A,M-B,M-C)
C132	166-1201-50	12pF CH	C537	166-2201-50	22pF CH	C580	117-0000-05	1/10W 0 JW
C133	166-1501-50	15pF CH	C538	166-2201-50	22pF CH			(M-D,M-E,M-F,M-G)
C134	168-1022-55	1000pF	C539	166-2201-50	22pF CH	C582	183-1053-69	50V1 $\mu$ F
C135	168-1042-78	16V 0.1 $\mu$ F	C540	166-2201-50	22pF CH	C584	166-2201-50	22pF CH
C136	168-1042-78	16V 0.1 $\mu$ F	C541	166-2201-50	22pF CH	C585	166-2201-50	22pF CH
C137	168-1042-78	16V 0.1 $\mu$ F	C542	166-2201-50	22pF CH	C586	166-2201-50	22pF CH
C138	168-1042-78	16V 0.1 $\mu$ F	C543	166-2201-50	22pF CH	C587	166-2201-50	22pF CH
C201	168-1022-55	1000pF	C544	166-2201-50	22pF CH	C701	172-1041-15	0.1 $\mu$ F
C202	168-1022-55	1000pF	C545	178-1832-78	0.018 $\mu$ F	C702	042-0447-00	16V2200 $\mu$ F
C203	166-1011-50	100pF CH	C546	178-1832-78	0.018 $\mu$ F	C703	168-2222-55	2200pF
C204	166-1011-50	100pF CH	C547	178-1032-78	0.01 $\mu$ F	C704	168-2222-55	2200pF
C205	166-1011-50	100pF CH	C548	178-1032-78	0.01 $\mu$ F	C705	168-2222-55	2200pF
C206	166-1011-50	100pF CH	C549	178-2232-78	0.022 $\mu$ F	C706	168-2222-55	2200pF
C207	168-1042-78	16V 0.1 $\mu$ F	C550	178-3332-78	0.033 $\mu$ F	C707	168-2222-55	2200pF
C208	168-1042-78	16V 0.1 $\mu$ F	C551	178-6832-78	0.068 $\mu$ F	C708	168-2222-55	2200pF
C212	166-8097-50	8pF CH	C552	178-6832-78	0.068 $\mu$ F	C709	168-2222-55	2200pF
C213	184-2273-29	10V220 $\mu$ F	C553	178-8232-78	0.082 $\mu$ F	C710	168-2222-55	2200pF
C214	168-1042-78	16V 0.1 $\mu$ F			(M-A,M-B,M-C)	C711	168-2222-55	2200pF
C215	184-2273-29	10V220 $\mu$ F	C553	117-0000-05	1/10W 0 JW	C712	172-1041-15	0.1 $\mu$ F
C216	168-1042-78	16V 0.1 $\mu$ F			(M-D,M-E,M-F,M-G)	C713	182-1063-39	16V10 $\mu$ F
C217	042-0403-55	16V33 $\mu$ F	C554	178-8232-78	0.082 $\mu$ F	C714	183-6843-69	50V0.68 $\mu$ F
C218	042-0403-55	16V33 $\mu$ F			(M-A,M-B,M-C)	C802	182-4763-39	16V47 $\mu$ F
C219	168-1042-78	16V 0.1 $\mu$ F	C554	117-0000-05	1/10W 0 JW	C803	182-1063-39	16V10 $\mu$ F
C301	168-4722-55	4700pF			(M-D,M-E,M-F,M-G)	C804	182-4763-19	6.3V47 $\mu$ F
C303	182-4763-39	16V47 $\mu$ F	C555	178-1242-78	0.12 $\mu$ F	C805	182-4763-19	6.3V47 $\mu$ F
C306	184-2273-29	10V220 $\mu$ F			(M-A,M-B,M-C)	C806	182-1063-39	16V10 $\mu$ F
C307	182-1063-39	16V10 $\mu$ F	C555	117-0000-05	1/10W 0 JW	C807	182-1063-39	16V10 $\mu$ F
C311	183-1063-37	16V10 $\mu$ F			(M-D,M-E,M-F,M-G)	C808	168-1042-78	16V 0.1 $\mu$ F
C312	183-1063-37	16V10 $\mu$ F	C556	178-1242-78	0.12 $\mu$ F	C809	184-4773-39	16V470 $\mu$ F
C313	183-1063-37	16V10 $\mu$ F			(M-A,M-B,M-C)	C810	183-4756-58	35V4.7 $\mu$ F NP
C314	183-1063-37	16V10 $\mu$ F	C556	117-0000-05	1/10W 0 JW	C811	168-1042-78	16V 0.1 $\mu$ F
C315	182-2263-19	6.3V22 $\mu$ F			(M-D,M-E,M-F,M-G)	C812	168-1042-78	16V 0.1 $\mu$ F
C316	182-1053-69	50V1 $\mu$ F	C557	178-8232-78	0.082 $\mu$ F	C813	168-1042-78	16V 0.1 $\mu$ F
C318	178-1042-78	0.1 $\mu$ F	C558	178-1242-78	0.12 $\mu$ F	CCT201	050-0140-53	1/32W 0 $\times$ 4J
C319	178-1042-78	0.1 $\mu$ F	C559	166-2201-50	22pF CH	CCT202	050-0140-53	1/32W 0 $\times$ 4J
C321	182-1053-69	50V1 $\mu$ F	C560	166-2201-50	22pF CH	CCT203	050-0140-53	1/32W 0 $\times$ 4J
C322	178-3942-78	0.39 $\mu$ F	C561	166-2201-50	22pF CH	CCT204	050-0140-53	1/32W 0 $\times$ 4J
C323	178-3942-78	0.39 $\mu$ F	C562	166-2201-50	22pF CH	CCT205	050-0140-54	1/32W 1k $\times$ 4J
C325	182-1053-69	50V1 $\mu$ F	C563	178-8232-78	0.082 $\mu$ F	CCT206	050-0140-54	1/32W 1k $\times$ 4J
C326	182-1053-69	50V1 $\mu$ F	C564	178-1242-78	0.12 $\mu$ F	CCT207	050-0140-54	1/32W 1k $\times$ 4J
C332	178-1842-78	0.18 $\mu$ F	C565	168-1032-55	0.01 $\mu$ F	CCT209	050-0140-54	1/32W 1k $\times$ 4J
C333	178-1842-78	0.18 $\mu$ F	C566	168-2232-55	0.022 $\mu$ F	CCT210	050-0140-54	1/32W 1k $\times$ 4J
C334	178-1842-78	0.18 $\mu$ F	C567	168-1032-55	0.01 $\mu$ F	D701	001-2015-00	RL253
C335	178-1842-78	0.18 $\mu$ F	C568	178-6832-78	0.068 $\mu$ F	D702	001-0626-91	1A2
C336	168-8212-55	820pF			(M-A,M-B,M-C)	D703	001-0347-34	MA4062L
C337	168-8212-55	820pF	C568	178-3332-78	0.033 $\mu$ F	D703	001-0346-34	MTZJ6.2A
C338	168-8212-55	820pF			(M-D,M-E,M-F)	D703	001-0401-34	HZS6C1
C339	168-8212-55	820pF	C568	178-1242-78	0.12 $\mu$ F(M-G)	D704	001-0626-91	1A2
C340	182-1063-39	16V10 $\mu$ F	C569	178-6832-78	0.068 $\mu$ F	D802	001-0347-48	MA4091H
C341	182-1063-39	16V10 $\mu$ F			(M-A,M-B,M-C)	D802	001-0401-48	HZS9.1JB3
C342	168-1832-55	0.018 $\mu$ F	C569	178-3332-78	0.033 $\mu$ F	D802	001-0346-49	MTZJ10A
C343	182-1063-39	16V10 $\mu$ F			(M-D,M-E,M-F)	D803	001-0516-90	MA111
C344	182-1063-39	16V10 $\mu$ F	C569	178-1242-78	0.12 $\mu$ F(M-G)	D804	001-0504-31	HZS6 A2L
C345	182-1063-39	16V10 $\mu$ F	C570	178-2242-78	0.22 $\mu$ F	D806	001-0504-31	HZS6 A2L
C346	182-1063-39	16V10 $\mu$ F			(M-A,M-B,M-C)	D808	001-0504-45	HZS9B1L

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
D809	001-0347-45	MA4082H	R115	119-3321-15	1/16W 3.3k	R504	119-3331-15	1/16W 33k
D809	001-0346-46	MTZJ9.1A	R116	111-1501-98	1/4W 15			(M-A,M-B,M-C)
D809	001-0401-45	HZS8.2JB3	R117	119-4721-15	1/16W 4.7k	R504	119-0000-05	1/16W 0 JW
D810	001-0347-46	MA4091L	R118	119-4741-15	1/16W 470k			(M-D,M-E,M-F,M-G)
D810	001-0401-46	HZS9.1JB1	R119	111-1001-98	1/4W 10	R505	119-2231-15	1/16W 22k
D810	001-0347-47	MA4091M	R120	111-2221-98	1/4W 2.2k	R506	119-2231-15	1/16W 22k
IC201	052-1163-20	uPD178076GF-540-3BA	R121	111-1031-98	1/4W 10k	R507	119-2231-15	1/16W 22k
IC301	051-3034-90	NJM4558V	R122	119-1021-15	1/16W 1k	R508	119-2231-15	1/16W 22k
IC302	051-5027-00	LC75412WH	R123	111-1031-98	1/4W 10k	R510	119-2731-15	1/16W 27k
IC501	051-3019-90	NJM2060V	R124	111-2221-98	1/4W 2.2k	R512	119-2731-15	1/16W 27k
IC503	051-3019-90	NJM2060V	R126	119-8201-15	1/16W 82	R513	119-4721-15	1/16W 4.7k
IC504	051-3019-90	NJM2060V	R198	119-0000-05	1/16W 0 JW	R514	119-1031-15	1/16W 10k
IC505	051-3019-90	NJM2060V	R199	119-0000-05	1/16W 0 JW	R515	119-1031-15	1/16W 10k
IC506	051-2040-00	TA8276H	R201	119-1021-15	1/16W 1k	R516	119-4721-15	1/16W 4.7k
J201	074-1191-26	26P	R202	119-1021-15	1/16W 1k	R521	119-4721-15	1/16W 4.7k
J302	074-0850-08	8P	R203	119-1031-15	1/16W 10k	R522	119-4721-15	1/16W 4.7k
J701	074-1068-11	NS10+6	R204	119-0000-05	1/16W 0 JW	R523	119-1031-15	1/16W 10k
L104	010-2003-04	COIL	R205	119-1031-15	1/16W 10k	R524	119-1031-15	1/16W 10k
L202	010-2230-64	2.2 μH	R206	119-4731-15	1/16W 47k	R525	119-2221-15	1/16W 2.2k
L701	009-0670-71	CHOKE	R207	119-4731-15	1/16W 47k	R526	119-0000-05	1/16W 0 JW
L701	009-0670-01	CHOKE	R208	119-4731-15	1/16W 47k			(M-D,M-E,M-F)
P701	076-0540-14	14P	R209	119-1041-15	1/16W 100k	R526	119-2221-15	1/16W 2.2k (M-G)
Q104	198-0669-00	2SK669	R210	119-1041-15	1/16W 100k	R527	119-0000-05	1/16W 0 JW
Q106	190-1150-00	2SA1150	R214	119-2231-15	1/16W 22k			(M-D,M-E,M-F)
Q107	125-2020-92	DTC114EK	R215	119-1031-15	1/16W 10k	R527	119-2221-15	1/16W 2.2k (M-G)
Q107	125-2005-91	UN2211	R216	119-1021-15	1/16W 1k	R528	119-2221-15	1/16W 2.2k
Q107	125-2031-92	MUN2211	R221	119-1031-15	1/16W 10k	R529	119-2221-15	1/16W 2.2k
Q107	125-2004-92	RN1402	R222	119-4731-15	1/16W 47k	R530	119-0000-05	1/16W 0 JW
Q108	190-1150-00	2SA1150	R223	119-1031-15	1/16W 10k			(M-D,M-E,M-F)
Q304	125-2020-92	DTC114EK	R224	119-1021-15	1/16W 1k	R530	119-2221-15	1/16W 2.2k (M-G)
Q304	125-2004-92	RN1402	R225	119-1031-15	1/16W 10k	R531	119-0000-05	1/16W 0 JW
Q304	125-2005-91	UN2211	R226	119-1021-15	1/16W 1k			(M-D,M-E,M-F)
Q304	125-2031-92	MUN2211	R227	119-4731-15	1/16W 47k	R531	119-2221-15	1/16W 2.2k (M-G)
Q305	125-9002-92	RN4602	R230	119-1021-15	1/16W 1k	R532	119-2221-15	1/16W 2.2k
Q305	125-9003-92	IMD3	R231	119-1021-15	1/16W 1k	R549	119-1521-15	1/16W 1.5k
Q701	192-2412-00	2SC2412	R232	119-4731-15	1/16W 47k	R550	119-1521-15	1/16W 1.5k
Q701	192-2712-00	2SC2712	R233	119-4731-15	1/16W 47k	R551	119-1021-15	1/16W 1k
Q801	193-2118-00	2SD2118	R234	119-1031-15	1/16W 10k	R552	119-1021-15	1/16W 1k
Q802	125-2004-92	RN1402	R236	119-4731-15	1/16W 47k	R553	119-1511-15	1/16W 150
Q802	125-2031-92	MUN2211	R243	119-1031-15	1/16W 10k	R554	119-1511-15	1/16W 150
Q802	125-2005-91	UN2211	R245	119-1031-15	1/16W 10k	R555	119-1511-15	1/16W 150
Q802	125-2020-92	DTC114EK	R246	119-1031-15	1/16W 10k	R556	119-1511-15	1/16W 150
Q803	190-1150-00	2SA1150	R248	119-1021-15	1/16W 1k	R557	119-1541-15	1/16W 150k
Q804	125-2031-92	MUN2211	R249	119-0000-05	1/16W 0 JW	R558	119-1541-15	1/16W 150k
Q804	125-2020-92	DTC114EK	R301	119-1021-15	1/16W 1k	R559	119-1541-15	1/16W 150k
Q804	125-2005-91	UN2211	R302	119-1021-15	1/16W 1k	R560	119-1541-15	1/16W 150k
Q804	125-2004-92	RN1402	R308	119-4731-15	1/16W 47k	R561	119-1541-15	1/16W 150k
Q805	125-0001-91	UN2111	R309	119-0000-05	1/16W 0 JW	R562	119-1541-15	1/16W 150k
Q805	125-0002-92	RN2402	R310	119-4731-15	1/16W 47k	R563	119-1541-15	1/16W 150k
Q805	125-0014-92	DTA114EK	R315	119-4731-15	1/16W 47k	R564	119-1541-15	1/16W 150k
Q805	125-0024-92	MUN2111	R316	032-0106-64	1/10W 56k 0.5%	R565	119-1511-15	1/16W 150
Q806	193-1858-00	2SD1858	R317	119-3011-15	1/16W 300	R566	119-1511-15	1/16W 150
Q807	125-9003-92	IMD3	R318	032-0106-64	1/10W 56k 0.5%	R567	119-1511-15	1/16W 150
Q807	125-9002-92	RN4602	R319	111-8211-98	1/4W 820	R568	119-1511-15	1/16W 150
Q811	193-2118-00	2SD2118	R320	111-8211-98	1/4W 820	R569	119-1021-15	1/16W 1k
Q812	125-9003-92	IMD3	R323	032-0106-64	1/10W 56k 0.5%	R570	119-1521-15	1/16W 1.5k
Q812	125-9002-92	RN4602	R324	119-3011-15	1/16W 300	R571	119-1221-15	1/16W 1.2k
Q813	103-2012-00	2SD2012	R325	032-0106-64	1/10W 56k 0.5%	R572	119-1221-15	1/16W 1.2k
Q814	125-2005-91	UN2211	R334	119-1021-15	1/16W 1k	R573	119-2231-15	1/16W 22k
Q814	125-2020-92	DTC114EK	R335	119-1021-15	1/16W 1k			(M-A,M-B,M-C)
Q814	125-2004-92	RN1402	R342	119-4721-15	1/16W 4.7k	R573	119-0000-05	1/16W 0 JW
Q814	125-2031-92	MUN2211	R343	119-4721-15	1/16W 4.7k			(M-D,M-E,M-F,M-G)
Q815	125-2004-92	RN1402	R346	119-4721-15	1/16W 4.7k	R574	119-1831-15	1/16W 18k
Q815	125-2020-92	DTC114EK	R347	119-4721-15	1/16W 4.7k			(M-A,M-B,M-C)
Q815	125-2005-91	UN2211	R501	119-3331-15	1/16W 33k	R574	119-0000-05	1/16W 0 JW
Q815	125-2031-92	MUN2211			(M-A,M-B,M-C)			(M-D,M-E,M-F,M-G)
Q816	193-2118-00	2SD2118	R501	119-0000-05	1/16W 0 JW	R575	119-1021-15	1/16W 1k
Q817	193-1306-00	2SD1306			(M-D,M-E,M-F,M-G)	R576	119-1021-15	1/16W 1k
Q818	192-2412-00	2SC2412	R502	119-3331-15	1/16W 33k	R577	119-1031-15	1/16W 10k
Q818	192-2712-00	2SC2712			(M-A,M-B,M-C)	R578	119-1031-15	1/16W 10k
Q819	125-9002-92	RN4602	R502	119-0000-05	1/16W 0 JW	R579	119-5131-15	1/16W 51k
Q819	125-9003-92	IMD3			(M-D,M-E,M-F,M-G)	R580	119-5131-15	1/16W 51k
R111	119-2221-15	1/16W 2.2k	R503	119-3331-15	1/16W 33k	R581	119-5131-15	1/16W 51k
R112	119-2221-15	1/16W 2.2k			(M-A,M-B,M-C)	R582	119-5131-15	1/16W 51k
R113	119-1821-15	1/16W 1.8k	R503	119-0000-05	1/16W 0 JW	R583	119-1031-15	1/16W 10k
R114	111-2701-98	1/4W 27			(M-D,M-E,M-F,M-G)	R584	119-1031-15	1/16W 10k



REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
R585	119-1831-15	1/16W 18k (M-A,M-B,M-C, M-D,M-E,M-F)	R595	119-2221-15	1/16W 2.2k (M-G)	R704	114-2291-11	1W 2.2
R585	119-8231-15	1/16W 82k (M-G)	R596	119-5631-15	1/16W 56k (M-A,M-B,M-C, M-D,M-E,M-F)	R705	119-0000-05	1/16W 0 JW
R586	119-1021-15	1/16W 1k	R596	119-2221-15	1/16W 2.2k (M-G)	R803	111-4711-98	1/4W 470
R587	119-1021-15	1/16W 1k	R597	119-5631-15	1/16W 56k (M-A,M-B,M-C, M-D,M-E,M-F)	R804	111-1021-98	1/4W 1k
R588	119-2231-15	1/16W 22k (M-A,M-B,M-C)	R597	119-2221-15	1/16W 2.2k (M-G)	R805	119-2231-15	1/16W 22k
R588	119-0000-05	1/16W 0 JW (M-D,M-E,M-F,M-G)	R598	119-5631-15	1/16W 56k (M-A,M-B,M-C, M-D,M-E,M-F)	R806	119-4741-15	1/16W 470k
R589	119-1831-15	1/16W 18k (M-A,M-B,M-C)	R598	119-2221-15	1/16W 2.2k (M-G)	R807	119-2231-15	1/16W 22k
R589	119-0000-05	1/16W 0 JW (M-D,M-E,M-F,M-G)	R599	119-4721-15	1/16W 4.7k	R808	111-8211-98	1/4W 820
R590	119-1021-15	1/16W 1k	R604	119-2231-15	1/16W 22k (M-A,M-B,M-C, M-D,M-E,M-F)	R809	111-8211-98	1/4W 820
R591	119-2221-15	1/16W 2.2k (M-A,M-B,M-C, M-D,M-E,M-F)	R604	119-0000-05	1/16W 0 JW(M-G)	R814	111-2211-98	1/4W 220
R591	119-1231-15	1/16W 12k (M-G)	R605	119-2231-15	1/16W 22k (M-A,M-B,M-C, M-D,M-E,M-F)	R815	119-1041-15	1/16W 100k
R592	119-2221-15	1/16W 2.2k (M-A,M-B,M-C, M-D,M-E,M-F)	R605	119-2231-15	1/16W 22k (M-A,M-B,M-C, M-D,M-E,M-F)	R818	111-3911-98	1/4W 390
R592	119-1231-15	1/16W 12k (M-G)	R606	119-0000-05	1/16W 0 JW(M-G)	R819	119-1041-15	1/16W 100k
R593	119-2221-15	1/16W 2.2k (M-A,M-B,M-C, M-D,M-E,M-F)	R606	119-2231-15	1/16W 22k (M-A,M-B,M-C, M-D,M-E,M-F)	R821	111-2021-98	1/4W 2k J
R593	119-1231-15	1/16W 12k (M-G)	R607	119-2231-15	1/16W 22k (M-A,M-B,M-C, M-D,M-E,M-F)	R822	111-2021-98	1/4W 2k J
R594	119-2221-15	1/16W 2.2k (M-A,M-B,M-C, M-D,M-E,M-F)	R607	119-0000-05	1/16W 0 JW(M-G)	R824	119-4731-15	1/16W 47k
R594	119-1231-15	1/16W 12k (M-G)	R619	119-4721-15	1/16W 4.7k	R825	111-1801-98	1/4W 18
R595	119-5631-15	1/16W 56k (M-A,M-B,M-C, M-D,M-E,M-F)	R701	119-1031-15	1/16W 10k	R826	119-5611-15	1/16W 560
			R702	119-5611-15	1/16W 560	R827	119-4721-15	1/16W 4.7k
			R703	111-1531-98	1/4W 15k	R828	111-1831-98	1/4W 18k
						R829	111-1801-98	1/4W 18
						R831	111-8211-98	1/4W 820
						R832	111-8211-98	1/4W 820
						R833	111-3911-98	1/4W 390
						SUP101	060-0122-10	DSP-201M-S00B
						TC201	004-1580-02	11pF
						TM101	073-0762-90	TERMINAL
						TM801	073-0762-90	TERMINAL
						VR102	012-5203-56	10k
						X201	061-3055-00	4.5MHz

#### Switch PWB section(B2)

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C901	168-1042-78	16V 0.1 $\mu$ F	D906	001-0516-90	MA111	S902	013-6300-51	SJPGAA032A
C902	168-1042-78	16V 0.1 $\mu$ F	D907	001-0516-90	MA111	S903	013-6300-51	SJPGAA032A
C903	168-6812-55	680pF	D908	001-0516-90	MA111	S904	013-6300-51	SJPGAA032A
C904	168-1042-78	16V 0.1 $\mu$ F	IC901	051-6000-20	LC7583NW	S905	013-6300-51	SJPGAA032A
C905	042-0423-92	6.3V4.7 $\mu$ F	J901	074-1151-14	14P	S906	013-6300-51	SJPGAA032A
C906	168-1042-78	16V 0.1 $\mu$ F	PL901	017-0447-59	8V105mA	S907	013-6300-51	SJPGAA032A
C907	042-0423-92	6.3V4.7 $\mu$ F	PL902	017-0447-59	8V105mA	S908	013-6300-51	SJPGAA032A
CCT901	050-0140-54	1/32W 1k $\times$ 4J	PL903	017-0433-58	14V40mA	S909	013-6300-51	SJPGAA032A
CCT902	050-0140-54	1/32W 1k $\times$ 4J	PL904	017-0433-58	14V40mA	S910	013-6300-51	SJPGAA032A
D901	001-0516-90	MA111	PL905	017-0433-58	14V40mA	S912	013-6302-50	SKQMAL
D902	001-0516-90	MA111	PL906	017-0433-58	14V40mA	S913	013-6300-51	SJPGAA032A
D903	001-0516-90	MA111	PL907	017-0433-58	14V40mA	S914	013-6300-51	SJPGAA032A
D904	001-0516-90	MA111	R902	119-6831-15	1/16W 68k	S915	013-6300-51	SJPGAA032A
D905	001-0516-90	MA111	S901	013-6300-51	SJPGAA032A	VR903	016-0010-15	ROTALY ENCODER

#### CD PWB section(B3):CD mechanism

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C101	168-1042-78	0.1 $\mu$ F	C124	163-1073-05	4V100 $\mu$ F	C303	043-0533-50	0.047 $\mu$ F
C102	045-4701-50	47pF	C125	168-1042-78	0.1 $\mu$ F	D201	001-0516-90	MA111
C103	046-4722-58	4700pF	C126	168-1042-78	0.1 $\mu$ F	IC101	051-6376-00	TC94A14FA
C104	168-1042-78	0.1 $\mu$ F	C129	178-1052-78	1 $\mu$ F	IC102	051-3279-90	BA033LBSG
C105	046-1532-78	0.015 $\mu$ F	C201	163-3363-05	4V33 $\mu$ F	IC201	051-5710-90	TA2157F
C106	046-1032-78	0.01 $\mu$ F	C202	168-1042-78	0.1 $\mu$ F	IC301	051-6049-08	BA5983FP-E2
C107	046-1032-78	0.01 $\mu$ F	C203	178-1052-78	1 $\mu$ F	J101	074-1228-76	26P
C108	046-4722-58	4700pF	C204	163-1073-05	4V100 $\mu$ F	J201	074-1138-65	15P
C109	046-1522-58	1500pF	C205	163-3363-05	4V33 $\mu$ F	J301	074-1138-60	10P
C110	046-3332-78	0.033 $\mu$ F	C206	168-1042-78	0.1 $\mu$ F	L101	010-2285-57	BLM21B102SPT
C111	168-1042-78	0.1 $\mu$ F	C207	043-0533-50	0.047 $\mu$ F	L102	010-2285-57	BLM21B102SPT
C112	046-3332-78	0.033 $\mu$ F	C208	046-6822-58	6800pF	L103	010-2285-57	BLM21B102SPT
C113	168-1042-78	0.1 $\mu$ F	C209	168-1042-78	0.1 $\mu$ F	L104	010-2285-57	BLM21B102SPT
C114	168-1042-78	0.1 $\mu$ F	C210	043-0533-50	0.047 $\mu$ F	L105	010-2285-57	BLM21B102SPT
C115	046-4712-58	470pF	C211	168-1042-78	0.1 $\mu$ F	L401	010-3050-93	10 $\mu$ H
C116	046-4712-58	470pF	C212	168-1042-78	0.1 $\mu$ F	Q201	131-1188-50	2SB1188
C117	043-0533-50	0.047 $\mu$ F	C213	045-5096-50	5pF	R102	033-5621-15	1/16W 5.6k
C118	043-0533-50	0.047 $\mu$ F	C214	045-5601-50	56pF	R104	033-4731-15	1/16W 47k
C119	045-2701-50	27pF	C215	043-0533-50	0.047 $\mu$ F	R105	033-1041-15	1/16W 100k
C120	045-1801-50	18pF	C216	178-1052-78	1 $\mu$ F	R108	033-1531-15	1/16W 15k
C121	163-1063-35	16V10 $\mu$ F	C217	045-1011-50	100pF	R109	033-1031-15	1/16W 10k
C122	178-1052-78	1 $\mu$ F	C301	163-1073-35	16V100 $\mu$ F	R110	033-1051-15	1/16W 1M
C123	046-1032-78	0.01 $\mu$ F	C302	168-1042-78	0.1 $\mu$ F	R111	033-3321-15	1/16W 3.3k

REF No.	PART No.	DESCRIPTION
R114	033-2211-15	1/16W 220
R115	033-2211-15	1/16W 220
R116	033-1031-15	1/16W 10k
R117	033-1021-15	1/16W 1k
R131	033-4711-15	1/16W 470
R132	033-2211-15	1/16W 220
R201	117-2201-15	1/10W 22
R202	117-2201-15	1/10W 22
R203	033-1041-15	1/16W 100k
R204	033-1041-15	1/16W 100k

REF No.	PART No.	DESCRIPTION
R205	033-1041-15	1/16W 100k
R206	033-1041-15	1/16W 100k
R207	033-1041-15	1/16W 100k
R208	033-8231-15	1/16W 82k
R209	033-6811-15	1/16W 680
R210	033-6831-15	1/16W 68k
R211	033-1831-15	1/16W 18k
R212	033-2721-15	1/16W 2.7k
R213	033-1011-15	1/16W 100
R214	033-1021-15	1/16W 1k

REF No.	PART No.	DESCRIPTION
R215	033-1031-15	1/16W 10k
R217	033-1041-15	1/16W 100k
R218	033-2211-15	1/16W 220
R301	117-6811-15	1/16W 680
R304	033-3921-15	1/16W 3.9k
R305	033-3921-15	1/16W 3.9k
R306	033-1041-15	1/16W 100k
R307	033-2211-15	1/16W 220
X102	060-1528-90	16.934M

#### LED PWB section(B4):CD mechanism

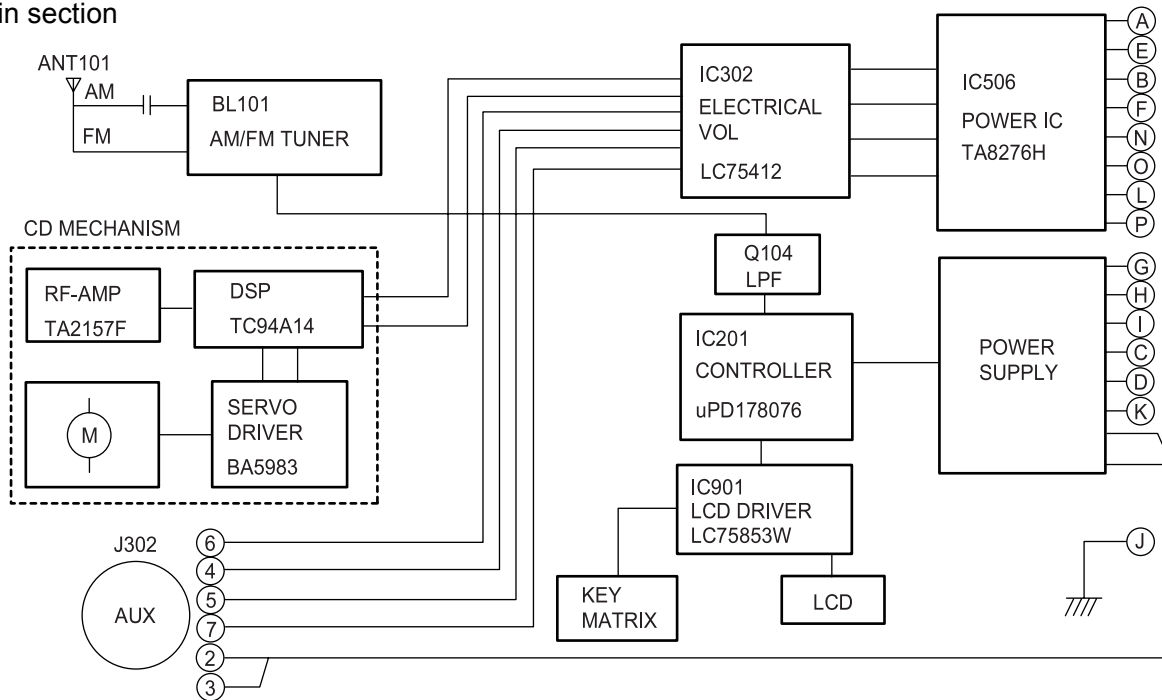
REF No.	PART No.	DESCRIPTION
D1	001-7058-90	AN1105W-RR
D2	001-7058-90	AN1105W-RR
J1	074-1138-60	10P

REF No.	PART No.	DESCRIPTION
Q1	060-4015-90	PS1192H
Q2	060-4015-90	PS1192H

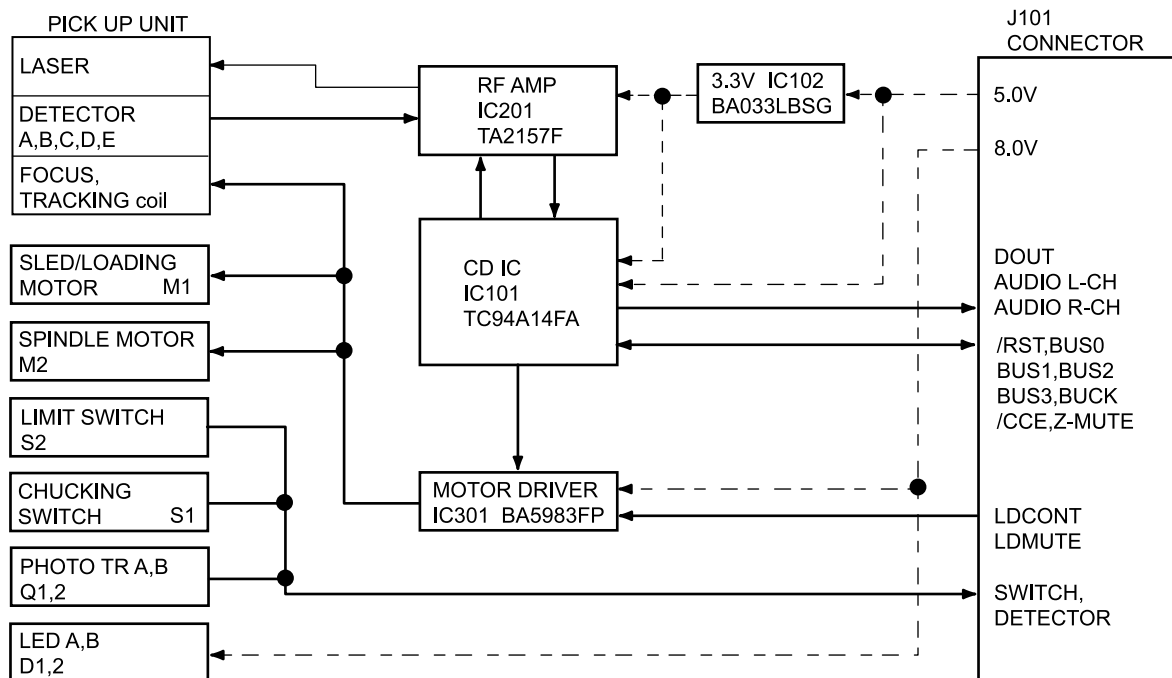
REF No.	PART No.	DESCRIPTION
S1	013-7414-50	CHUCKING
S2	013-7413-50	LIMIT

### BLOCK DIAGRAM

#### Main section

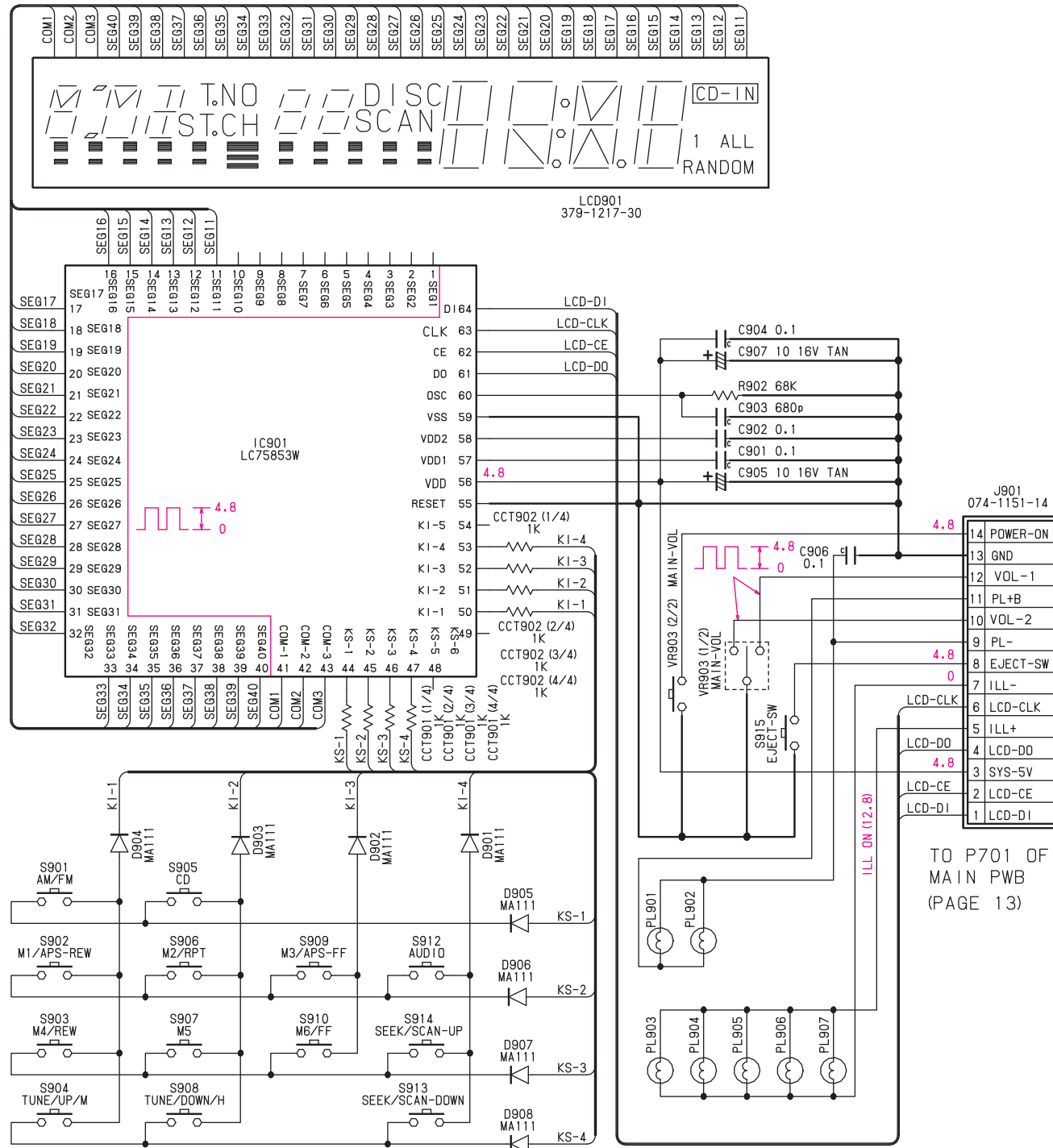


#### CD mechanism section



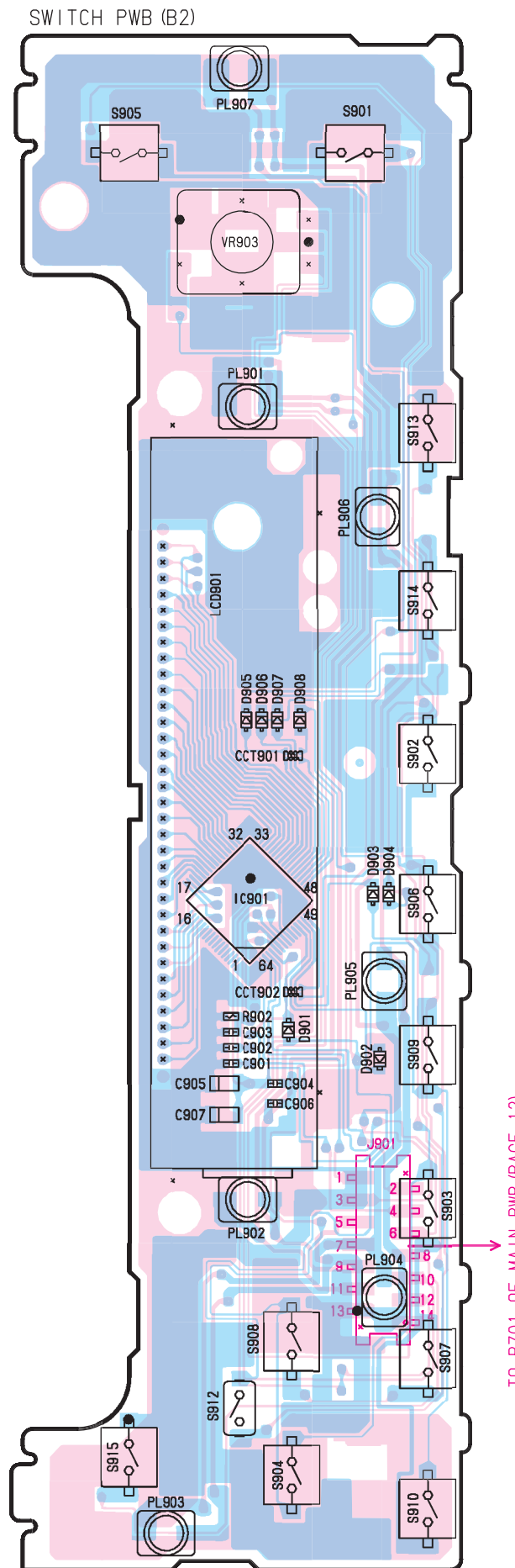
# CIRCUIT DIAGRAM

Switch PWB section(B2)



# PRINTED WIRING BOARD

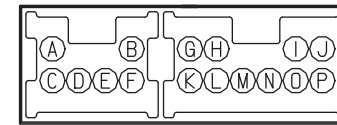
Switch PWB section(B2)



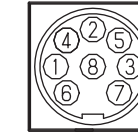
MARKS ● AND MARKS [GND] ARE ON THE GROUND OF THE DIP LAYER.

Main PWB section(B1)

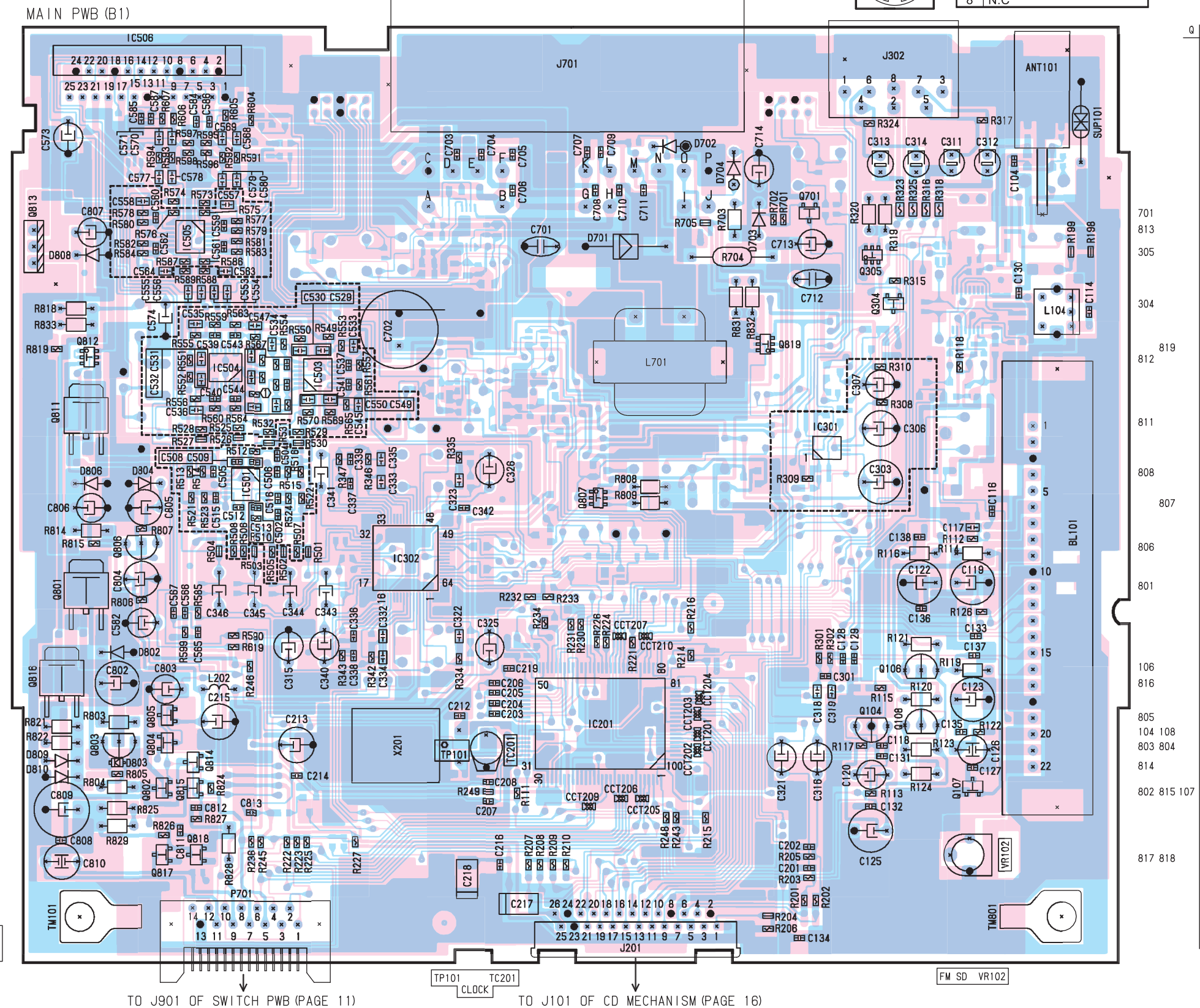
No.	Description	No.	Description
A	AMP ON SIGNAL	I	ILLUMI(+)
B	REAR SP R-CH(+)	J	ACC
C	GND	K	FRONT SP L-CH(-)
D	REAR SP L-CH(-)	L	FRONT SP R-CH(-)
E	REAR SP L-CH(+)	M	ANT SIGNAL
F	REAR SP R-CH(-)	N	BACK UP
G	FRONT SP L-CH(-)	O	N.C
H	FRONT SP R-CH(+)	P	GND



No.	Description
1	ON SIGNAL(CD TO COMBI)
2	ON SIGNAL(COMBI TO CD)
3	N.C
4	L-CH INPUT(+)
5	R-CH INPUT(+)
6	L-CH INPUT(-)
7	R-CH INPUT(-)
8	N.C



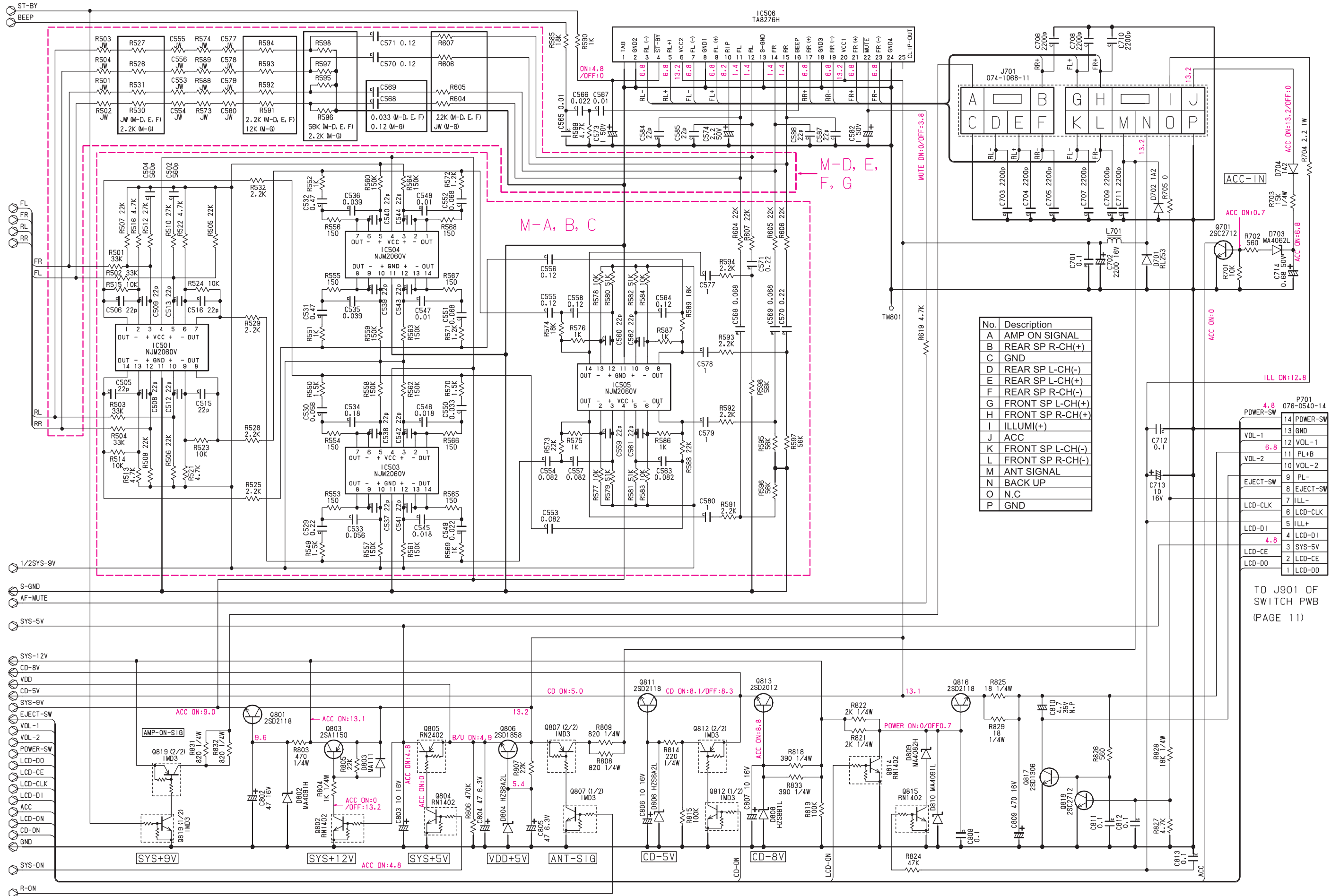
THE PARTS IN MARKS  ARE USED  
PN-2445M-A, M-B, M-C.





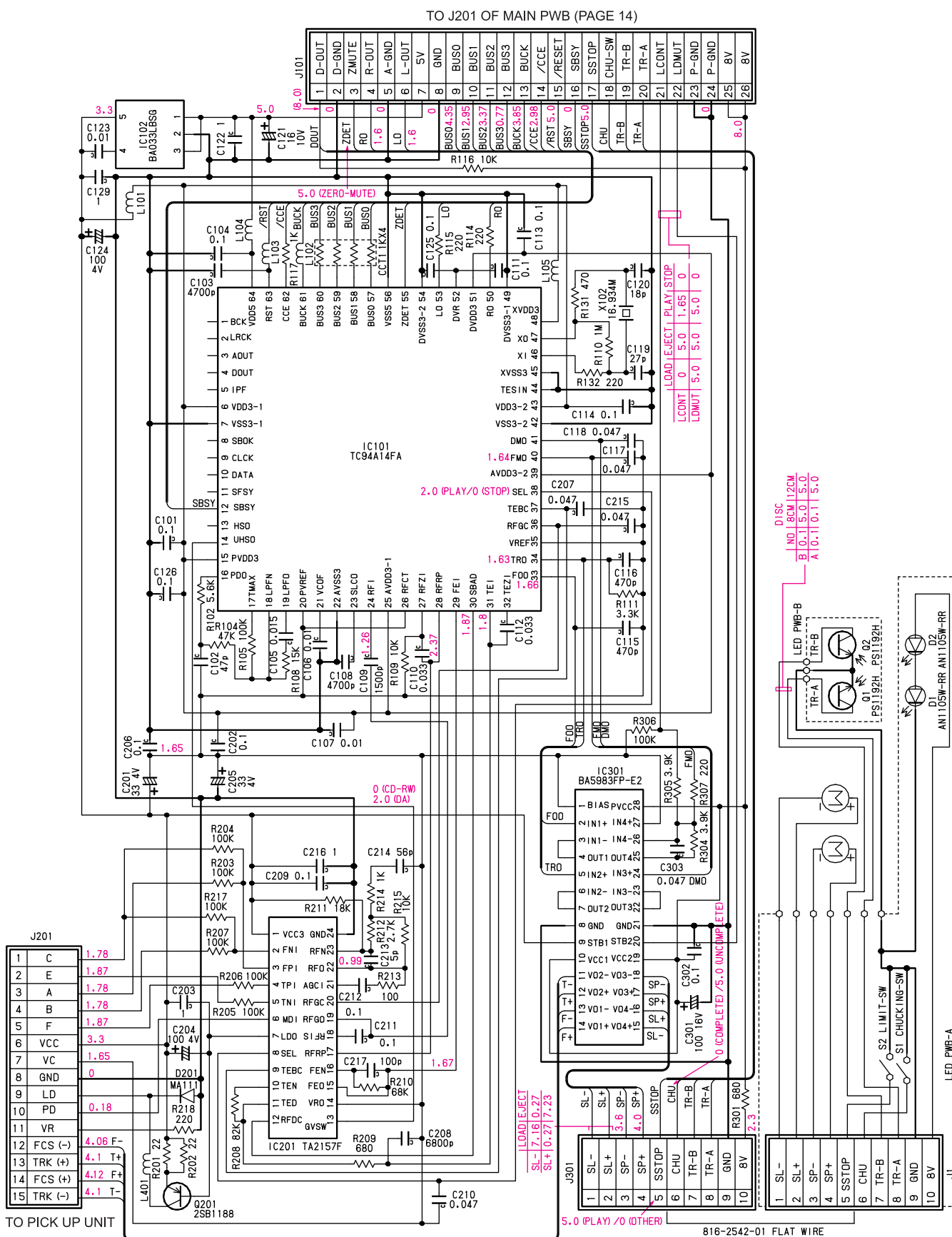
# ■CIRCUIT DIAGRAM Main PWB section(B1) 1/2

TO 2/2 (PAGE 14)





CD mechanism section(B3, B4)



# ■ PRINTED WIRING BOARD

CD mechanism section(B3, B4)

